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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTO	OR ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/843,046	04/26/2001	Toshitaka Shibata	14998.270	8913	
7590 05/02/2005		2005	EXA	EXAMINER		
Daniel Basov				BELLAMY	BELLAMY, TAMIKO D	
	Chadbourne & I	Parke LLP				
30 Rockefeller Plaza				ART UNIT	PAPER NUMBER	
				2956		

DATE MAILED: 05/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summer	09/843,046	SHIBATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tamiko D. Bellamy	2856				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum studyory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 2/7/05.						
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowar		osecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-10</u> is/are pending in the appli						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1, and 3+10</u> is/are rejected.						
7) Claim(s) <u>** and 3470</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
••						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
*						
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date;	5) Notice of Informal F 6) Other:	-ателі Арріісаціой (РТО-192)				
U.S. Patent and Trademark Office						
	ction Summary	Part of Paper No./Mail Date 13				

DETAILED ACTION

1. Amendment dated 2/7/05 has been received and entered. Claim 2 has been canceled. Claims 1, and 3-10 are currently pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-7, 8/1, 9, and 10 are rejected under 35 U.S.C. 103(a) as being obvious over Nomura et al. (5,948,991) in the view of Watanabe et al. (6,260,417).

Re claim 1, Nomura et al. discloses in Figs. 3, 8, 5, and 15 a base (e.g., resin block 3), a pressure injection section (e.g., pressure introduction hole 30a), and a lead (16) connected to a pressure-sensitive section (e.g., sensor chip 11). The device of Nomura et al. discloses the pressure sensitive element (e.g., sensor chip 11) is fixedly adhered onto a base (e.g., resin block 3) by a resin adhesive agent (14) (Col. 4, lines 21-24). Nomura et al. also discloses a pressure-sensitive section (130) enclosed by a sensor package (133, 137). Nomura et al. lacks the detail of the affixing by the use of a fluoric elastomer. Watanabe et al. discloses the use of a fluoric elastomer (e.g., phlorosilicone adhesive 5). Therefore, to modify Nomura et al. by employing a fluoric elastomer would have been obvious to one of ordinary skill in the art at the time of the invention since Watanabe et al. teaches a pressure sensor having theses design characteristics. The skilled artisan would be motivated to combine the teachings of Nomura et al. and

Art Unit: 2856

Watanabe et al. since Nomura et al. states that his invention is applicable to pressure sensor for detecting pressure intake in an engine and Watanabe et al. is directed to detecting pressure intake in an engine.

Re claim 3, Nomura et al. discloses in Fig. 8 a gel-like silicon resin (132/15) that covers the pressure-sensitive section (e.g., pressure sensor chip 130) (Col. 7, lines 24-28, col. 9, lines 38-46). Nomura et al. also discloses a lead (131) connected to the terminal of the pressure-sensitive section (130)(col. 10, lines 1-8). As depicted in fig. 1, the lead (1310 is connected to the base, and the gel-like silicon resin (132) covers a portion of lead (132) and covers all of the pressure-sensitive section (e.g., pressure sensor chip 130).

Re to claim 4, Nomura et al. discloses in figs. 3 and 6 a gel-like protective member (15) on the pressure-sensitive section (e.g., sensor chip 11). The gel-like is from the silicone resin group (15/132) (Col. 7, lines 26-28). Nomura et al. does not specifically state the use of a fluoric gel. However the court held in, In re Leshin, 227 F. 2d 197, 125 USPQ 416 (CCPA 1960), that selection of a known material based upon its suitability for the intended use is a design consideration clearly within the preview of one having ordinary skill of the art. Therefore, to modify Nomura et al. on a fluoric gel would have been obvious to one of ordinary skill in the art at the time of the invention since this reference explicitly teaches its use on pressure sensor for detecting pressure intake in an engine that includes a gel-like protective member on the pressure-sensitive section (e.g., sensor chip 11).

Re claims 5-7, Nomura et al. discloses in figs. 3 and 6 a gel-like protective member (15) on the pressure-sensitive section (e.g., sensor chip 11). Nomura et al. also

Application/Control Number: 09/843,046

Art Unit: 2856

discloses that the pressure sensitive element (e.g., sensor chip 11) is fixedly adhered onto a base (e.g., resin block 3) by a resin adhesive agent (14) (col. 4, lines 21-24). The gellike protective member is from the silicone resin group (15/132) (col. 7, lines 26-28). Nomura et al. does not specifically state that the fluoric elastomer is harder that the fluoric gel. Watanabe et al. discloses the use of a first protective layer (7) that is made of a fluorine or phlorosilicone based resin material which has a relatively large Young's modulus that is larger than a second protective layer (8) having a relatively low Young's Modulus. Watanabe et al. discloses that the fluoric elastomer (e.g., phlorosilicone 5) is made from the same material. As depicted in fig. 1, the first protective layer (7) and the fluoric elastomer (e.g., phlorosilicone 5) are the same material. Therefore, the e.g., phlorosilicone 5) inherently has a large Young's modulus, which is equivalent to a fluoric elastomer having a harder solidification than the fluoric gel (Col. 3, lines 7-25). Therefore, to modify Nomura et al. by employing a fluoric elastomer that is harder than a fluoric gel would have been obvious to one of ordinary skill in the art at the time of the invention since Watanabe et al. teaches a pressure sensor having theses design characteristics. The skilled artisan would be motivated to combine the teachings of Nomura et al. and Watanabe et al. since Nomura et al. states that his invention is

Page 4

Re claims 8\1, 9, and 10 Nomura et al. discloses a pressure sensor (121) used for detecting an air/gas intake of an engine (Col. 6, lines 9-19).

applicable to pressure sensor for detecting pressure intake in an engine and Watanabe et

Response to Remarks

al. is directed to detecting pressure intake in an engine.

Application/Control Number: 09/843,046 Page 5

Art Unit: 2856

4. Applicant's arguments with respect to claims 1, and 3-9 have been considered but are moot in view of the new ground(s) of rejection. It is the examiners position that claims 1-9 are not patentable over the newly applied art of Nomura et al. in view of Watanabe et al.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamiko D. Bellamy whose telephone number is (571) 272-2190. The examiner can normally be reached on Monday - Friday 7:30 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tamiko Bellamy

April 20, 2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800